



State of Illinois

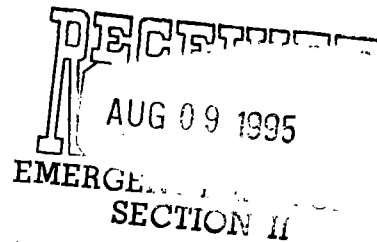
# ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

August 4, 1995

Mr. Donald Bruce  
Chief Response Section II  
Emergency Response Branch  
United States Environmental Protection Agency  
Region V  
77 West Jackson Street  
Chicago, IL 60604-3590



Dear Mr. Bruce,

Per your recent telephone conversation with Bruce Everetts, this letter is an official state of recommendation for a potential immediate removal action due to the presence of contaminated soils at the Allied Chemical Corporation site located at 12260 South Carondot Avenue in Chicago, Illinois.

The site was owned and operated from 1920 to 1981 by the Allied Chemical Company. This company produced sulfuric acid, ammonium thiosulfate, aluminum chloride solution and reduced chromium sulfates, along with chemically pure acids for commercial use up to 1978. The active portion of the property was sold to Pressure Vessel Services Inc. (PVS), in 1981.

The site covers approximately 90 acres along the east side of the Calumet River just below Turning Basin #3. The property is divided into the active and inactive portions. The active portion occupies approximately 30 acres in the northeast third of the site.

The inactive portion of the site was purchased in 1990 by the Anderson - Schroud Group, a Real Estate/ Development company. It is in this area where the three Allied Chemical landfills and the contaminated soil area are located. This area is also undergoing the first stages of development for an industrial complex.

Site access onto the PVS owned properties for reconnaissance was denied. A limited visual reconnaissance of the PVS owned property was made from the inactive portion of the site. At the north end of the PVS property a pile of yellow material within 25 feet of the Calumet River was observed. To the south of the pile patches of a yellow material covered the ground.

The site reconnaissance of the inactive portion of the site indicated areas of bright yellow soil discoloration, zones without vegetation, and areas of exposed lenses of yellow

EPA Region 5 Records Ctr.



288539

Printed on Recycled Paper

material up to 8 inches thick. A purple/maroonish material and a white crystalline material were found in pockets above the yellow lenses in two locations. The first is along the Calumet River seawall where the backfill has been eroded by the river. The second was in a trench excavated by the Anderson - Schroud contractors. The trench runs east/west from South Carondelet Avenue into Wolf Creek intersecting landfill number one. Building debris along with the lenses of materials mentioned above were observed. A large excavation was created along the west property line. The dirt from this excavation was utilized as fill on other Anderson/Schroud Properties. No lenses or discolored soils were observed around this excavation.

While sampling along the mouth of Wolf Creek, the field investigation team identified a metal discharge pipe approximately 18 in diameter. The pipe was corroded through and, the effluent could easily be released to Wolf Creek and the Calumet River.

I have enclosed photos of site reconnaissance and sampling activities, sample location maps and analytical results. I would appreciate being kept informed as to any further activities which may take place at this site. Please contact me at 217/524-3511 regarding any questions, for further information or to make arrangement for future site activities including site access.

Sincerely,

Ted Prescott  
Site Assessment Program  
Remedial Project Management Section  
Bureau of Land  
Illinois Environmental Protection Agency

# SITE LAYOUT MAP

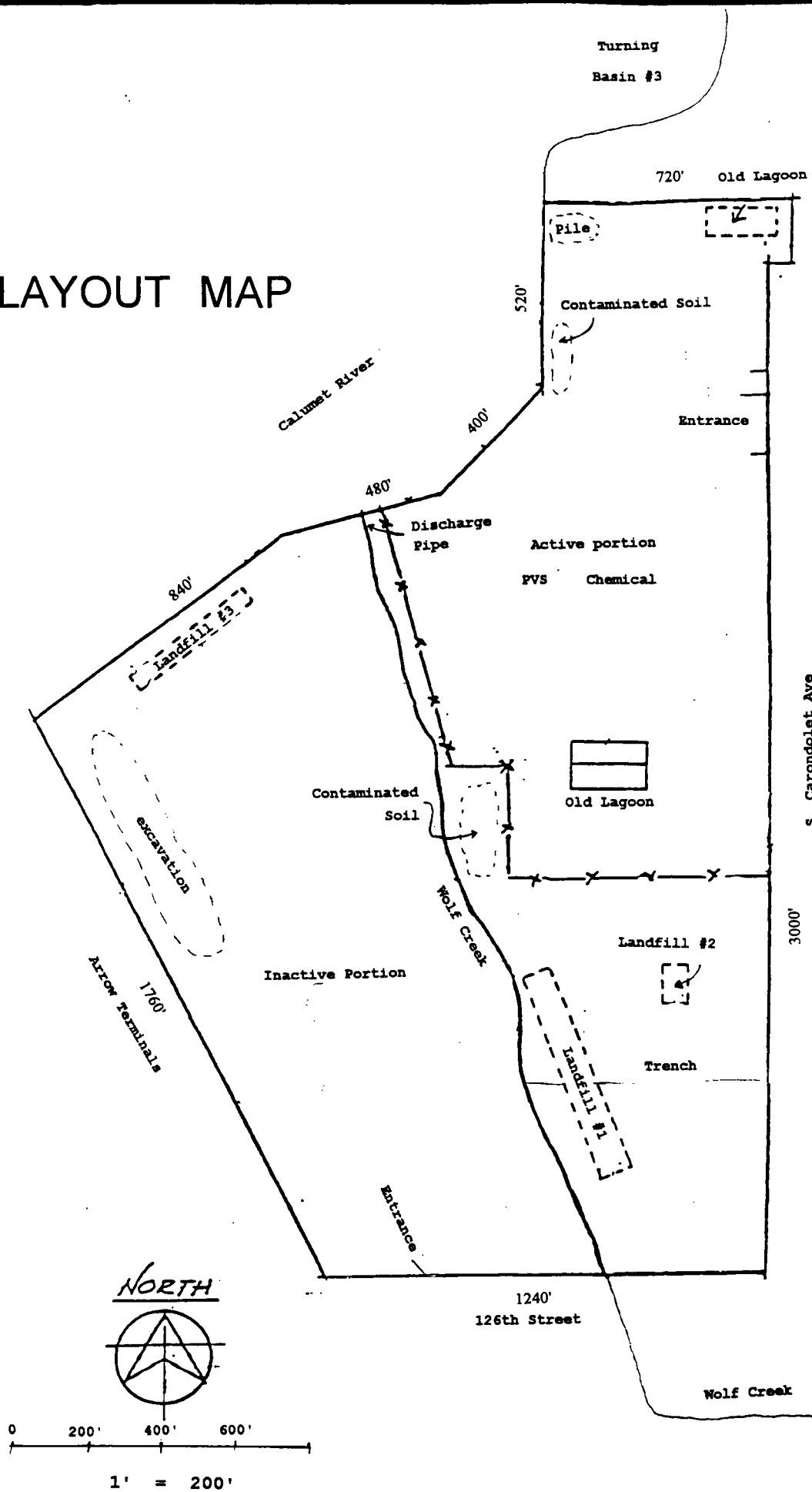


FIGURE 3

TABLE 2. SOIL/SEDIMENT DESCRIPTIONS

SAMPLE	DEPTH	APPEARANCE	LOCATION	JUSTIFICATION
X101	0" - 4"	Black silt loam	500ft E of Avenue O and 36' N of W bound access Rd at WMW Powers Conservation Area	Background sample
X102	0" - 4"	Grey & Black silt/sand with cinders	48' from E edge Wolf Creek & 132' N of 126th St.	Characterize landfill #1 Identify contamination to Wolf Creek
X103	0" - 4"	Whit/maroon/yellow powdery to gritty	207' W of S. Carondelet 776' N of 126th Street	Characterize landfill # 2
X104 & X105	0" - 6"	Yellow/maroon/black gritty material	77'E of Wolf Creek 150'S of southern PVS fence line	Characterize contaminated soil zone Duplicate samples
X106	4" - 6"	Dark brown/black silty loam	64'E of Arrow Terminals property 8' south of Calumet River	Characterize landfill #3
X501	0" - 6" along trench wall	yellow, maroon, white, green materials in composite	Collected from N wall of trench at intersection of landfill # 1	Special characteristic sample to determine constituents of landfill materials
X502	0" - 4" along side wall	Yellow & maroon lenses w/ whi nodules between lenses	15' S of N edge of Calumet River wall 290' west of Wolf Creek	Special characteristic sample to determine constituents of lenses
X201	0" - 10" 5" below water	Dark grey silty clay	75' W of S. Carondelet Ave. 2' from N bank of Wolf Creek	Wolf Creek Background
X202	0" - 6" 2-3" below water	Dark grey silty sand/gravel	East side of Turning Basin #3 at center of basin	Calumet River Background
X203	0" - 12" at waterline	Grey silt w/ sand organic materials highly decomposed	At delta of trench and Wolf Creek 3' out onto delta in center of delta	Collected on delta to identify if materials are migrating to Wolf Creek
X204 & X205	0" - 12" 4" below water	grey/black fine sands fine sheen present	70' N of 126th St. bridge on west bank of Wolf Creek	Collected at start of the wetland to determine if the wetlands have been impacted Duplicate samples
X206	0" - 6" 12" below water	sand and clindery silt fine sheen present	64' S of Calumet River in Wolf Creek On E bank of Wolf Creek	Collected at confluence of Calumet River & Wolf Creek to determine if materials are migrating
X207	0" - 6" at surface	purple/maroonish colored silty sand	Collected in same area as X502 3' S of Riverwall 270' W of Wolf Creek	Collected where riverwall fill has been eroded exposing lenses. To determine if materials are migrating to Calumet River
X208	0" - 6" 6" below water	grey silty clay with plant materials	Collected on Wolf Creek 375' S of Calumet R 2' E of West shore of Wolf Creek	To establish the wetland boundaries

SAMPLE KEY	
X 1..	Soil
X 2..	Sediment
X 5..	Special Waste
	Characteristic

Table 1

SITE NAME: ALLIED CHEMICAL  
ILD NUMBER: 001833714

Source		and		Soil		Samples			
SAMPLING POINT	X 101	X 102	X 103	X 104	X 105	X 106	X 501	BENCHMARKS	
PARAMETER	3-28-95	3-28-95	3-28-95	3-28-95	3-28-95	3-28-95	3-28-95	SCDMs	RLs
VOLATILES (ppm)	soil background								
1,1,1-Trichloroethane	4 J		17	14	16	7 J	18		
SEMIVOLATILES (ppm)									
Phenanthrene	350 U		3100	7500	6800		680		500-1000
Anthracene	600 U			1500 J	1400 J				500-1000
Carbazole	600 U			710 J	660 J				
Fluoranthene	940		4200	10000	11000				500-1000
Pyrene	690		2400	5800	5400			1.70E+04	500-1000
Benzo(a)anthracene	630		2100	6100	6500				500-1000
Chrysene	630		2400	11000	13000				500-1000
bis(2-Ethylhexyl)phthalate	600 UJ		940 J		1100 J				12000
Benzo(b)fluoranthene	1200		3700	8500	10000				
Benzo(k)fluoranthene	600 U			5400	7200				500-1000
Benzo(a)pyrene	730			3800	3900				500-1000
Indeno(1,2,3-cd)pyrene	600 U			2200 J	2500 J				500-1000
PESTICIDES (ppm)									
alpha-BHC	3.1 U			20 JP	19 DJ				
delta-BHC	3.1 U		110 PD						
Dieldrin	0.7 JP	3.1 JP				7.9 P			
Endrin	6.1 P	18 P	120 PD	110 PD	110 PD	11 P		1.70E+02	230
Endosulfan II	6 U		50 U			20		2.90E+01	39
4,4'-DDD	6.9			77 PD				2.40E+00	710
Endosulfan sulfate	6 U		50 U	39 JP	31 JPD				
4,4'-DDT	7.1 P		87 PD	120 PD	100 PD	15 P		1.70E+00	390
Endrin Ketone	6 U		38 JPD						
Endrin aldehyde	6 U		21 JPD						
alpha-Chlorodane	3.1 U	16							47
gamma-Chlorodane	3.1 U	6.4 P		24 PD	23 PD				47
Aroclor-1254	60 U	300	1500 D	1000 D	1000 D	250 P			22
Aroclor-1260	73	230	1000 PD	1800 D	1700 D	510			22
INORGANICS (ppm)									
Antimony	9.3 U	10.6	16.2	12.5	13.6		15.2	2.30E+02	310
Arsenic	7.4		24			44.3	342	3.20E+01	8-200
Barium	93.9		701	339	361				
Cadmium	1.4 U	14.7		3		2.2		2.90E+02	25
Chromium	65.2	2660							200-400
Copper	37.3 J	151 J					22000 J		5000
Iron	20900 J	122000 J					50400 J		
Lead	98.5 J	374 J	1110 J	1570 J	2760 J		3130 J		500-1000
Mercury	0.1 B		3.8	7.27	7.5		3.81 J	1.70E+02	1600
Nickel	24 J	90.7 J						1.20E+04	1600
Selenium	1.72 UJ		7.1	188	67.3		2.84	1.70E+03	2300
Silver	1.6 U	4.9	3.6	8.7	8.7		10.7	1.70E+03	2300
Vanadium	31.7	168							
Zinc	259 J					1290 J	7450 J	1.20E+05	160000
Cyanide	0.94 U	1.1	1.6	1.2					-338

Table 2a

Table 2b

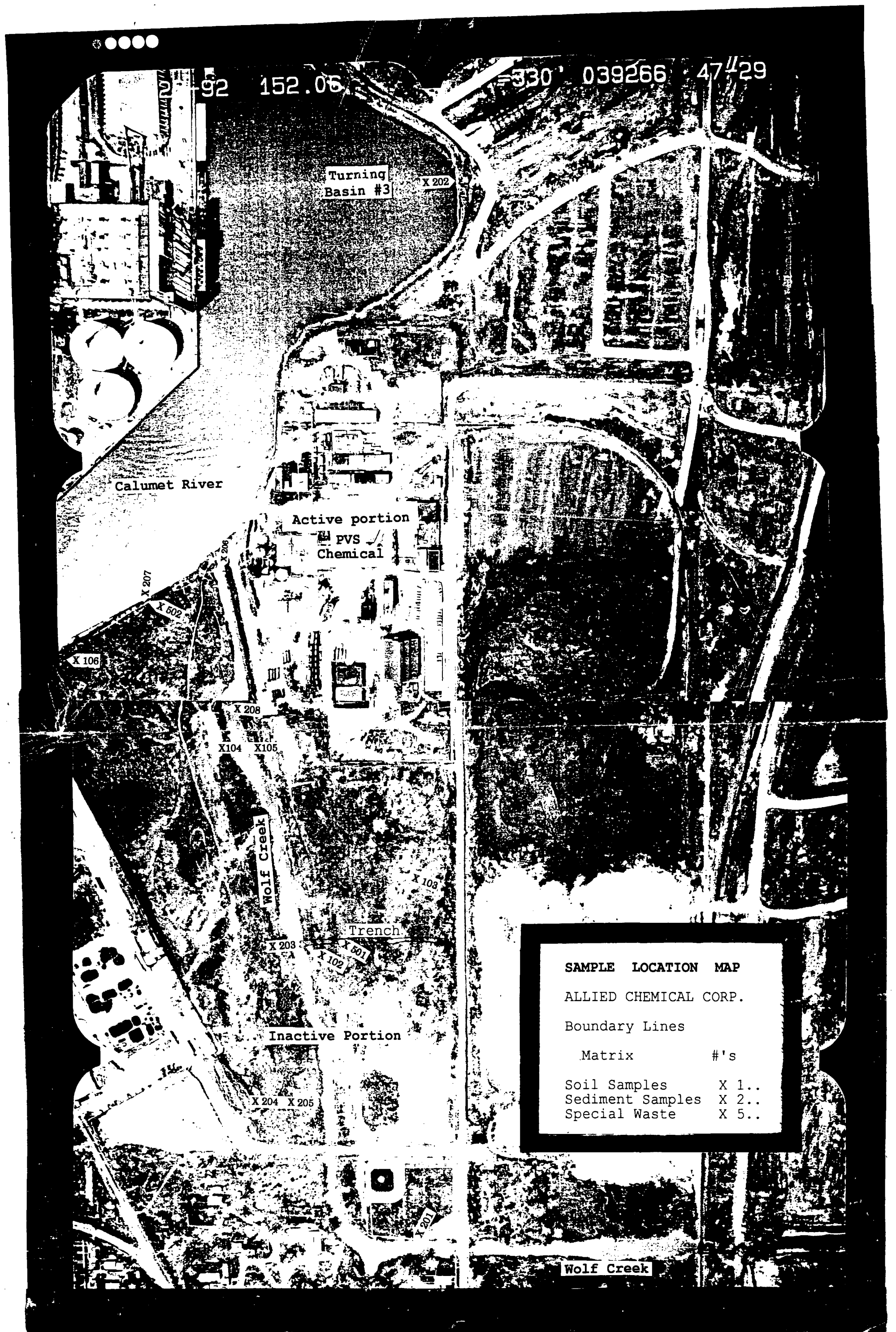


FIGURE 4